

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

FEBRUARY, 26, 1976

## SENATE

To accommodate an expanded agenda and to permit members of the public the opportunity of contributing to discussions, the University Senate held two consecutive sessions February 19 and 20.

### Report on Academic Women: Ten Months After

In March, 1975, the Task Force on the Status of Women submitted to the Senate its *Report on Academic Women*. At that time, members voted to direct the Executive to forward the Report and its recommendations to the various bodies/persons named in the report. These included the Board of Governors, the President, the Vice-President (Academic), Deans of Faculties, and General Faculties Council. In compliance with one of its own directives, the Senate sent letters requesting information on the status of those recommendations. Having tabulated the responses received, Neil Henry, Executive Secretary, gave the following report:

#### *Recommendation 1 through 6 were directed to the Board of Governors*

In response to my letter to the Chairman, I have received the following information. Recommendations were formally received by the Board of Governors at its meeting of June 6, 1975. The administration was asked for a report on how to implement these recommendations. To date, the Board has not received such a report.

From other information, I am able to report that some activity has in fact been initiated by other organizations or bodies in the University.

#### Recommendation 1

*1. that a policy statement against sex discrimination be adopted and printed in the Faculty Handbook, the Manual of Administrative Practices, the Administrative/Professional Officers Regulations, and other such contractual and administrative manuals.*

Comment: The Faculty Handbook is being entirely rewritten by a joint AASUA/Board of Governors Committee. Recommended wording for a statement against discrimination has been presented to this committee by the Academic Staff Association. The revised handbook is not yet available and the specific results are not yet known.



*A listing of the divisions of Technical Services and the various services those divisions provide is contained on pages five and six.*

#### **Recommendation 2**

*2. that instructions be issued to administrative officers of the University to investigate and bring forward proposals concerning more flexible and imaginative work patterns for both male and female staff including part-time and shared tenurable positions.*

Comment: To the best of my knowledge, no action has been taken on this recommendation.

#### **Recommendation 3**

*3. that sessional appointments which have been renewed three times or more be considered for reclassification as permanent positions requiring longer term contracts.*

Comment: As far as I know, no action has been taken. The treatment of full-time sessionals has improved in terms of salaries, but that policy was already in place before the publication of the report.

#### **Recommendation 4**

*4. that a University-wide system of generous maternity benefits be established and funded through a permanent central contingency fund.*

Comment: A scheme for maternity benefits was negotiated by the Academic Staff Association before the Report was published. In general, this provision appears to be better than any currently available at other universities.

#### **Recommendation 5**

*5. that The University of Alberta assume greater responsibility for expanded, subsidized day-care facilities on campus.*

Comment: Since the publication of the Report, the Students' Union, the Graduate Students Association, the Non-Academic Staff

Association, the Academic Women's Association and the Association of the Academic Staff of the University of Alberta have cooperated to some degree in proposals for an increase in day care facilities at the University. The proposals have centred around the provision of space by the University with the operating costs being paid through external grants and a sliding scale of fees. To the best of my knowledge, however, no action has followed.

#### **Recommendation 6**

*6. that a professional, external study be authorized into the status and employment patterns of non-academic women employees of the University with special reference to the personnel classification system.*

Comment: Again, I am not aware of any action in response to this recommendation.

*Recommendations 7 and 8 were directed to the President*

#### **Recommendation 7**

*7. that he establish a Review Committee to investigate and bring forward specific proposals for improving the status and numbers of women in all faculties and schools but particularly those in which women are now underrepresented.*

Comment: I have received no response to my request for information on the status of this recommendation.

#### **Recommendation 8**

*8. that the Dean of Women's position be replaced by a Dean or Director of Women's Affairs, appointed at a senior level and responsible to the President with duties as follows:*

- a) to work with but not for the Review Committee in the previous recommendation;*
- b) to monitor, collate, and publish data;*
- c) to lobby for improvement in the status of women;*
- d) to be available as a resource person to women staff and students in matters of information and grievance.*

Comment: This recommendation was considered by the Board of Governors in connection with the separate issue of student services. The Task Force knew that the position of Dean of Women was vacant and that there were certain limited similarities of function, at least as far as students were concerned. Rather than recommend a new position it seemed more reasonable to recommend that an existing position be changed and expanded to encompass all women on campus. Nevertheless, in the short run, the Board has chosen to regard this as a student service position and not to accept it for that reason.

*Recommendations 9 through to 11 were directed to the Vice-President (Academic)*

#### **Recommendation 9**

*9. in fulfillment of recommendation (1) above that when academic staff vacancies occur the Vice-President (Academic) place the onus on Deans and Directors to justify when a woman is not hired, why this was the case. We recognize that a demand for parity is unrealistic since women do not constitute 50% of the graduates in any given discipline. It is therefore unrealistic to demand that women be immediately represented proportionally in any field.*

Comment: At the instigation of the Vice-President, GFC has undertaken some action on this proposal which does answer, at least, in part, to the recommendation.

I quote now from the GFC minutes:

"Recognizing the serious concern that exists within the University and the community concerning the proportion of women on the academic staff, and realizing that within many disciplines the available pool of women applicants is limited, General Faculties Council reaffirms the commitment of the University to non-discrimination in staffing decisions. Accordingly, the following steps shall be taken whenever an academic staff vacancy occurs:

- (1) Except where the Vice-President (Academic) has otherwise authorized, there shall be wide advertisement of the vacancy with a statement to the effect that both men and women be invited to apply;
- (2) Selection Committees will give careful and detailed attention to all applications regardless of the sex of the applicants;
- (3) Selection Committees shall be required to explain in their recommendations the way in which the above two steps have been implemented.

#### **Recommendation 10**

*10. that in his capacity as Chairman of the General Promotions Committee, the Vice-President (Academic) have that body carry out a systematic review to identify and rectify unjustifiable salary differences.*

Comment: The recommendation has been taken to Deans' Council which has approximately the same membership as General Promotions and Salaries Committee. [At this point, a letter from Vice-President (Academic) Myer Horowitz was read. The letter indicated that some review of salary differences was underway. The letter referred to six cases in particular which would be rectified if, in the course of the review, salary differences prove to be unjustifiable.]

#### **Recommendation 11**

*11. that his Office keep records as to the*

# FOLIO

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number of yearly appointments, the sex of appointees, and the number and sex of applicants for those appointments; and further that statistics of the numbers of men and women staff members, department by department, be published annually every fall in Folio.

Comment: I have had no reaction to this recommendation.

*Recommendation 12 was directed to Deans of Faculties and Directors of Schools*

**Recommendation 12**

*12. take positive action to encourage women students to enter and complete graduate work.*

Comment: Twelve was never forwarded specifically to individual deans although copies of the Report were. The consequence has been that at least one dean in my acquaintance has absolved himself of any responsibility for the recommendation. I have since prepared a letter to all Deans and Directors to rectify this omission.

*Recommendation 13 was directed to General Faculties Council*

**Recommendation 13**

*13. that every effort be made to increase female representation on all committees but especially where these are central decision-making bodies.*

Comment: At its meeting of May 26, 1975, GFC endorsed this recommendation and enjoined the GFC Nominating Committee to pay particular attention to it. Only time will tell whether it has any noticeable effect upon the composition of the important committees.

Most members deplored the lack of action taken on the report since its release last April. June Sheppard, Chairman of the Task Force, suggested that, perhaps, more had been done which had not been brought to the attention of the Senate. In any case, she pointed out, the Senate had a right to more information than had been received.

Members of the Senate voted to direct the Executive to request specific responses from each of the bodies/persons named in the report. The responses were to enumerate the measures which had been taken so far in implementing the recommendations and include explanations for those items which had been rejected or for which no action had been taken. The motion called for the replies to be submitted by April 15, in time for consideration at the next meeting of the Senate.

**The Future of the Extension Function**

Mary-Jane Shaw, Chairman of the Task Force on the Extension Function, presented the second of two Task Force reports dealing with



*Echeveria glauca pumila found in an Agriculture Greenhouse. The Tropical Displayhouse is open to the public from 8:30*

*to 4:30 during the week and from 2 to 4 on Sundays.*

the extension function. This second report was undertaken from the point of view of the University and much of its investigation was focussed on a selection of University departments and faculties. The first report, which came forward in November, 1974, sought to interpret the "public-mind." It concluded that the University should develop its role as a major community resource, and that its service to the people of Alberta should have comparable status with the traditional teaching and research activities of the University.

In the course of its investigations, the first

Task Force noted that considerable extension work was being done but many members of the University, the government and the public were largely unaware of how much was being done and what forms it followed. As a result, many uninformed assumptions were being made about the degree of the University's commitment to the extension function. The second report attempts to respond to this situation by describing "the present reality of extension from the University's point of view."

The extension function, as defined by the second Task Force, includes "any activity that brings the resources of the University

to the service of persons who are not enrolled in the regular full-time undergraduate or graduate programs of the University." This definition, obviously, recognizes more than just the Faculty of Extension as serving that function.

Ten categories of extension were identified in the second report. These were: *continuing professional education; non-credit general interest courses; special credit course arrangements*; research applied to Alberta situations; professional associations; service to government agencies, public boards, and commissions; professional consulting; community or social action; publications for popular consumption; and combined teaching/public service units. Of these ten, the first three were grouped under the heading "continuing adult education." The report considered each category and assessed it in terms of the extent and kind of activity being undertaken.

After reviewing the various forms of extension, the second Task Force concluded that the University should make its commitment to the provision of "continuing adult education" as the primary focus of its extension function. This was in light of such considerations as the present limitations placed on the University's energies and resources and the varying degree of appropriateness of the different forms of extension in the opinion of the Task Force.

The Task Force further suggested that some of the extension services which are not considered part of "continuing adult education" might be better provided by other institutions.

Reactions to this report among the Senate members reflected their concern over the public's lack of awareness of the many and varied services afforded them under the University's present commitment to extension.

#### **Faculty of Engineering: Enrolment Quotas**

In an effort to solicit the support of the Senate, Dean Ford of the Faculty of Engineering and D. Quon, Associate Dean of Engineering, made a presentation to the Senate forecasting the dismal future in store for the Faculty if space and financial assistance is not received or if the Faculty is not permitted to institute enrolment quotas. Dean Ford predicted that in the next five years the Province's demand for engineers will expand beyond the University's ability to supply that demand. This will be reflected by increased enrolments. If additional staff can not be obtained, unbearable pressure will be forced on present staff and space. Student/staff ratios will soar beyond acceptable levels.

Under a proposed expansion program,

quotas for first year enrolments would be set at 520 in 1976 (this is the actual enrolment for 1975), 565 for 1977 and 1978, 625 for 1979 and 1980, and 700 for 1981 to 1984. Staff would be increased annually, but this would be done at a decreasing rate ranging from an increase of ten in 1976 to an increase of four in 1984. Staff/student ratios would be brought down from 12.4 in 1975 to a more acceptable 11.0 in 1979. These ratios were compared to those of the Universities of Waterloo (9.6), Toronto (10.8), California at Berkeley (10.9), and Illinois (9.5-10.0).

If staffing is kept at the present 1970-71 level and if the staff/student ratio is to be brought down to an acceptable 10.9, enrolments would have to be limited to 450 in 1976-77 and 400 each year thereafter.

### **TEACHING TEACHERS WORKSHOP**

Most university professors and graduate teaching assistants have not been taught to teach. As a result, and in spite of proper preparation of the subject matter, they are not able to get the material across to students. To assist professors and assistants in recognizing what they may be doing incorrectly (and correctly), John McLeish of the Department of Educational Psychology has set up a workshop on teaching methods.

The first workshop was held three years ago for the Faculties of Dentistry and Medicine at their request. Dr. McLeish brought to the workshop his experience in England as a consultant on teaching methods for the Association of University Teachers in Britain and his research work on teaching methods in higher education. He terms the workshop as being "very successful."

Continuing from these results, another workshop will be held beginning March 1 and continuing each Monday evening for five sessions from 7 p.m. to 9:30 p.m. Places are available for up to twenty graduate teaching assistants and professors, and they will be involved in preparing, delivering, and criticizing various kinds of presentations. With the assistance of video-tape, each participant will be aided by constructive criticism in a sympathetic learning environment.

### **BOOKS**

*English-Canadian Literature to 1900* by R.G. Moyles, Associate Professor of English, has been published in Detroit by the Gale Research Company. The volume is the sixth in the *American Literature, English Literature,*

*and World Literature in English Information Guide Series.*

*The Mechanism of Neuronal and Extra-neuronal Transport of Catecholamines*, a multi-author volume edited by David M. Paton, Professor of Pharmacology, has been published by Raven Press, New York.

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### **PEOPLE**

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■ Gwynn Nettler, Professor of Sociology, has been elected to a three-year term on the Editorial Board of *Criminology*, the official journal of the American Society of Criminology.

■ D.I. Gough, Director of the Institute of Earth and Planetary Physics, attended an intergovernmental meeting on Earthquake Risk which was held in Paris from February 9 to 19. Dr. Gough was a member of the three-man Canadian Government delegation.

■ Barbara Lacroix, Public Relations Officer, was elected to serve a second term as a member of the Board of District VIII of the Council for Advancement and Support of Education (an amalgamation of the American Colleges Public Relations Association and the American Alumni Council) at the District's conference in Spokane, Washington, from February 4 to 6. Mrs. Lacroix was also appointed conference chairman for the 1977 CASE District VIII conference to be held in Banff. Liz Clarke, Content Co-ordinator of the University's weekly television program "In Touch With U," conducted a major workshop on the program at the Spokane conference. Ron Thomas, Public Relations Assistant, also attended the Spokane meeting.

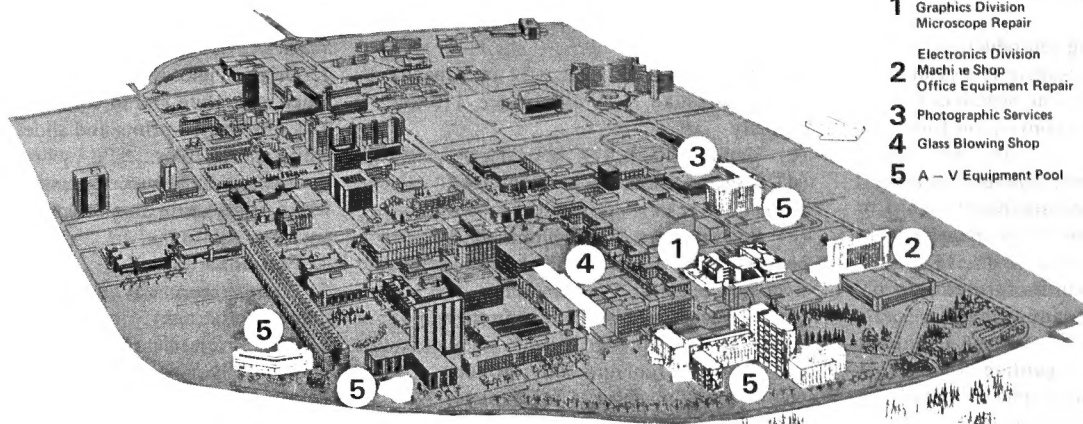
■ L.A. Kosinski, Professor of Geography, has a chapter, "Education and internal migration," in a recently published volume, *Education and population mutual impacts*, edited by H.V. Muhsam, International Union for the Scientific Study of Population, Ordina Editions. Dr. Kosinski has presented an invited paper and chaired a session at a Conference on "Demography and urbanization in Eastern Europe" organized in Los Angeles by the Center for Russian and East European Studies of UCLA from February 5 to 9.

■ R.T. Coutts, Professor of Pharmacy and Pharmaceutical Sciences, spent two days at the Department of Pharmacology, University of Montreal, and delivered a lecture entitled "A Chemical contribution to drug metabolism."

■ The University of Alberta String Quartet (Thomas Rolston and Lawrence Fisher,

*(Continued on page seven)*





- 1 Coordinator's Office  
Graphics Division  
Microscope Repair
- 2 Electronics Division  
Machine Shop  
Office Equipment Repair
- 3 Photographic Services
- 4 Glass Blowing Shop
- 5 A - V Equipment Pool

## The Department of Technical Services

The Department of Technical Services provides a variety of services to all University departments. Technical Services consists of eight divisions, and the services of each are listed in this supplement.

### AUDIOVISUAL SERVICES

Supervisor: J. DeWacht, phone 1183.  
Equipment requests to: L2-6 Humanities, phone 3923 or 1183. Equipment may also be picked up at 339 General Services Building, 1261; CW005 Biological Science Building, 4962; and LB-9 Tory Building.

#### Services available

1. Supplying audiovisual equipment to departments.
2. Projectionist services.
3. L2-6 Humanities has 50 study carrels variously equipped with audio cassette players, film strip units, sound/slide units, and video cassette players. Audio cassettes, film strips, slide/tape programs and video cassettes may be left in the tape library in L2-6 Humanities where students and/or staff can draw the tapes and play them in the carrels.
4. The Reserve Reading Room in Cameron Library is equipped with slide/tape and video cassette units for use by staff and students. Tapes may be deposited in the Reading Room for use by the students and staff.
5. Operation of public address and sound systems.
6. Setting up and operating of recording equipment at lectures, seminars, talks, etc.
7. Advice and assistance on purchase of equipment.
8. Assistance in developing slide/tape programs.

#### Equipment available for short-term loan

1. 35mm slide projectors.
2. 16mm motion picture projectors (sound) including the following special projectors:
  - (a) 16mm projector (silent) variable speed; slowest frame rate is 13 per second,
  - (b) 16mm projector (photo data optical analyzer) which will project at the following frame speeds: 1, 2, 4, 6, 8, 12, 16, and 24

- frames per second with no flicker,
- (c) 16mm projector (magnetic sound).
3.  $3\frac{1}{4} \times 4\frac{1}{2}$  slide projectors.
4. Opaque projectors.
5. Filmstrip projectors.
6. Overhead projectors.
7. Tape recorders (several kinds, including battery-operated and cassette recorders).
8. Portable public address systems.
9. Projection screens.
10. Record players.
11. Slide-tape synchronizing systems.

### DATA ACQUISITION AND INTERFACING

W. Sherrard—Electronics Division, 248 Chemical-Mineral Engineering Building, 4901.  
*Services available*

1. Design and construction of systems for data acquisition.
2. Design and construction of interfaces for mini-computers.
3. Conversion of analog to digital data for computer processing.
4. Assistance with purchasing of above type of equipment.
5. Rental of data acquisition systems.
6. A data acquisition system has been developed comprising a PDP 11-20 computer, an IBM compatible tape unit, ASR 33 teletype and high speed reader/punch. Software and various hardware support are available. Total system is either for loan or for data conversion in-house.

### ELECTRONICS

Supervisor: W. Diachuk. Assistant Supervisor: B. Acheson, 248 Chemical-Mineral Engineering Building, 4901.

#### Services available

1. Designing and building specialized electronic equipment.
2. Maintenance and repair of equipment such as sterilizers, glassware washers, environmental chambers, centrifuges, spectrometers, pH meters, liquid scintillation systems, gas chromatographs, computers, teletypes, tape recorders and electronic instrumentation in

- general. (A regular preventive maintenance program is available to any department. Service contracts are available.)
3. Electronics technicians are available on either full-time or part-time basis for short or long periods of time.
4. Advice and assistance on technical problems.
5. Servicing intercom installations and sound systems.
6. A considerable amount of electronic equipment is available for loan.
7. Complete fabrication of printed circuit boards, single and double sided.

### GLASSBLOWING

Supervisor: P.B. Lea, WB39 Chemistry Building, west wing, 3513.

#### Services available

1. Design and construction of specialized scientific glass apparatus.
2. Repair of glass apparatus.
3. Fabrication of apparatus to your specifications.

### GRAPHICS

Supervisor: R.W. Miller. Assistant Supervisor: N.G. Moroskat, 4-31 Mechanical Engineering Building, 3461 or 4184.

#### Services available

1. Presentation of graphical data for inclusion in publications, reports, theses, slides, television, and motion pictures.
2. Preparation of illustrative material including technical illustrations, medical and biological illustrations, architectural renderings and freehand sketches.
3. Production of visual instructional materials, such as overhead transparencies (in black and white or color), television cards, flip charts, and wall maps.
4. Design and preparation of display material for departmental display cabinets, conferences, and exhibitions.
5. Graphic design of labels, signs, logos, brochure covers, and posters for special or limited run applications.
6. IBM Composer typesetting in a variety of

styles (including Greek and mathematical type faces), for publications, theses, reports, brochures, and slides.

7. Graphic and engineering reproduction services, including: direct positive line prints for publications and theses, line negatives for printed circuitry, and diazo copying on film and paper.

8. Permanent and temporary signage and label production by silkscreen and signpress methods, on a variety of materials (paper, cardboard, acetate, vinyl, etc.).

9. Large dry-mounting facilities for items up to 4' x 6' as well as plastic laminating in a variety of sizes.

10. Advice and assistance regarding visual instructional materials, and graphic standards.

11. Signage—The campus signage program is now being co-ordinated by Gunther Ruppel, who is located in Graphics and who works closely with Campus Development. Design, production, and installation of temporary, permanent, and safety signage is handled by Mr. Ruppel. Advice and assistance in setting up signage programs for conferences and other related projects is also available. Mr. Ruppel can be reached at 3461.

#### **MACHINE SHOP**

Supervisor: E.F. Eichenlaub, Assistant Supervisor: G.L. Edwards, 132 Chemical-Mineral Engineering Building, 4901.

##### *Services available*

1. Design and construction of specialized apparatus and equipment.
2. Complete shop service: machining, fabricating, and welding.
3. Service and repair of mechanical apparatus and equipment.
4. Advice and assistance on proposed projects.
5. Advice and assistance on proposed equipment.
6. Modification of equipment and machines.

*Equipment is available to do the following:*

1. Sawing
  - (a) Band saw—36 inch throat—depth capacity to 12 inches—contouring to 36 inches in diameter—band filing
  - (b) Cut-off saw—circular capacity to 12 inches
2. Turning
  - (a) largest lathe has a capacity of 13 feet between centres with a swing of 25 inches over bed and 52-inch swing in gap
  - (b) tracing capability
3. Drilling and boring—radial drill has a 5-foot arm and drilling capacity in steel of 3 inches
4. Milling
  - (a) largest milling machine has a table travel of 60 inches and a ram travel (cross) of 27 inches
  - (b) Moog 3-axis point to point numerical control machining centre
5. Welding
  - (a) Oxyacetylene
  - (b) Arc
  - (c) Tig. 500 amp maximum
  - (d) Mig
  - (e) Silver brazing

(f) Plasma needle arc

(g) Plasma arc cutting (stainless steel and aluminum)

#### 6. Fabricating

(a) Power shearing 10 ft. x ¼ in. capacity

(b) Press brake 12 ft. die surface, 110 ton capacity

(c) Hand brake, 4 ft.

(d) Punching and notching on "Iron-worker"

(e) Bending on a "Diac" number 8 power bender, ¾ in. x 4 in. flat and 1¼ in. mild steel bar capacity

(f) "Pioneer" nibbler ½ in. capacity

#### 7. Grinding and lapping

(a) "Norton" tool and cutter grinder

(b) Lapping machine, 5 in. diameter capacity

#### 8. Gauging

(a) "Scherr-Tumico" model P1600 Optical Comparator with photo print facility

(b) Registered Double "A" standard surface plate and gauge blocks in temperature-controlled room

#### 9. Polishing

(a) Mechanical buffing

(b) Electro-polishing

(c) Anodizing

(d) Bluing

10. Shot-blasting—Shot-blast machine has a chamber size of 48 in. x 30 in. x 38 in.

#### **MICROSCOPE REPAIR**

Supervisor: R.J. Cunningham, 4-22 Mechanical Engineering Building, 1449.

##### *Services available*

1. Maintenance and repair of microscopes.
2. Maintenance and repair of balances.
3. A preventive maintenance program is available to any department wishing regular servicing of microscopes and/or balances.
4. Repair of electrical meters (movements only)—voltmeters, ammeters, etc.
5. Maintenance and repair of field surveying equipment.

#### **OFFICE EQUIPMENT REPAIR**

Supervisor: D. Millar, 130 Chemical-Mineral Engineering Building, 4901.

##### *Services available*

1. Maintenance and repair of
  - (a) all makes of electric and mechanical typewriters
  - (b) all makes of dictation equipment and small tape recorders
  - (c) all makes of mechanical adding machines and calculators
  - (d) some lines of electronic calculators (Where we are unable to service electronic calculators, we will handle the servicing through the distributor if the department wishes.)
  - (e) spirit duplicators
  - (f) small photocopy machines
  - (g) microfilm readers and printers
  - (h) small office accessories
2. Loan machines available for many makes while your machines are being repaired.
3. Machines available for rent.
4. IBM type element repair.

#### **PHOTOGRAPHIC SERVICES**

Supervisor: D. Cox, 130 Printing Services Building, 4185 or 4186.

##### *Services available*

1. Original photography—prints and slides in black and white and in color.
2. Copy work—prints and slides in black and white and in color.
3. Production of superior quality black and white prints using an electronic scanning enlarger.
4. Portraits.
5. Photomicrography, microphotography, macrophotography.
6. Specialized scientific and medical photography.
7. Murals.
8. Microfilming.
9. Film processing and printing in black and white and in color.
10. Camera and accessory rentals.
11. Motion Pictures (telephone 3812)
  - (a) Complete film production services: research, educational, documentary, dramatic; in color, black and white, silent or sound
  - (b) Film completion services: assistance in completing your own film to any extent you require
  - (c) Camera rentals: 16mm Bolexes with 17-85mm zooms, Super 8 Canon model 814s (reservations usually required)
  - (d) Specialized services available—photographic setups for research, time lapse, cinemicrographic data recordings, high speed camera operation, still pictures from films, sound and picture editing and synchronizing
  - (e) Film processing services
  - (f) Large file of motion picture technical and product information, and advice.

#### **TECHNICAL SERVICES**

##### **TELEPHONE DIRECTORY**

Co-ordinator. W.H. Jopling, 6-29 Mechanical Engineering Building, 3302.

Audiovisual Services 3923

Electronics 4901

Glassblowing 3513

Graphics 3461 or 4181

Machine Shop 4901

Microscope Repair 1449

Office Equipment Repair 4901

Photo Services 4185 or 4186

Motion Pictures 3912

(Continued from page four)

violins, Michael Bowie, viola, and Claude Kenneson, cello) recently performed and lectured at the University of Lethbridge and at Mount Royal College in Calgary. Among works played and discussed was the Fifth String Quartet by Bela Bartok, which is among that composer's body of compositions for this medium which the Quartet will present in June at the University of Missouri, Columbia, Missouri. The Quartet has been invited to present a credit course centered around the Six Bartok Quartets.

■ A. Kernaleguen, Professor of Household Economics, gave an address on clothing for the Handicapped at the National Red Cross Meeting in Toronto.

■ Jeanette Funke, Assistant Professor of the School of Nursing, has received a grant covering a twenty-two month period from the Toronto Sick Children's Hospital Foundation to study "The Reliability and validity testing of indicators of maternal adaptive behavior." Professor Funke will be the Project Director, with F. Morcos as Co-Director.

■ L.C. Green, University Professor, addressed the annual meeting of the medical staff of the Good Samaritan Hospital on "The Right to life" on February 12.

■ H.E. Gunning, President of the University, will accompany alumni officials, B. Adler and A. Markle, to Winnipeg to take part in an alumni branch meeting. Dr. Gunning will deliver a state-of-the-university address to University of Alberta graduates living in the Winnipeg area.

■ Ruth Pearce, Assistant Professor of Extension, and Bruce Bain, Assistant Professor of Educational Psychology, have been elected to the Provincial Steering Committee on English as a Second Language.

■ Violet Archer, Professor of Music, had her orchestral work, *Prelude-Incantation*, played by the National Symphony Orchestra, conducted by Pierre Héту who was guest conductor for the occasion, on February 5. This piece was originally commissioned by the Edmonton Symphony Orchestra and premiered by it in 1964 in honour of the Shakespeare Quadri-centenary.

■ Jean Marcel Duciaume, Assistant Professor of Romance Languages, had his book of poems, *Et le Verbe s'est fait chair*, with etchings by Francine Gravel, displayed at The Dandelion Gallery of Calgary from February 3 to 15. A copy of the book is available at the Cameron Library, Special Collections.

■ James Balderson, Assistant Professor of Educational Administration, delivered an address at the recent North Central Convention Association of the Alberta

Teachers' Association. The address was entitled "Two different worlds?: Administrator and teacher perceptions of school organization," and instructional flexibility, bureaucratization, student control, and teacher morale were among the variables examined in the presentation. Copies of the paper are available upon request from the author.

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## NOTICES

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### WORKSHOP ON UNIVERSITY TEACHING METHODS

A Workshop on University Teaching Methods, conducted by John McLeish, Professor of Educational Psychology, will take place on five consecutive Mondays in March from 7 p.m. to 9:30 p.m. Participants will be involved in preparing, delivering, and criticizing various kinds of presentations—lectures, practical demonstrations, controlled discussions, simulation exercises, and so on. These presentations will be video-taped for playback to the group. The instructor will provide constructive criticism and a suitable learning environment.

The workshop will take place in the Group Process Laboratory, 5-112 Education North. There are openings for up to twenty graduate teaching assistants or professors. There is no charge for the workshop, and interested persons should get in touch with Dr. McLeish at 432-4171.

### GEOGRAPHY PANEL DISCUSSION

The Western Division of the Canadian Association of Geographers and the Alberta Geographical Society are jointly presenting a panel discussion of "Energy alternatives in Western Canada" on Friday, March 5, at 8:30 p.m. in L-1 Humanities Center. The panel members are Norbert Berkowitz of the Research Council of Alberta, Larry Pratt of the Department of Political Science, University of Alberta, and Nick Taylor, leader of the Alberta Liberal Party. Admission will be 75 cents for non-registrants (WCAG) or non-members (AGS).

### ACADEMIC WOMEN'S ASSOCIATION

The next meeting of the Academic Women's Association will be held Wednesday evening, March 3, at the Faculty Club. Dinner will be served at 6 p.m., and the program will begin at 7 p.m. Speakers for the evening will be Marilynne Buffalo MacDonald, recently appointed Indian Affairs Adviser at the University, and Ruth Groberman, Acting Dean of Students. For dinner reservations, please contact Ros Sydie, Department of Sociology, phone 432-5853.

### PUBLIC LECTURE

Subrananiam Swamy, economist and member of Indian Parliament, will speak on "Dictatorship versus democracy in India" on Friday, March 5, at 7:30 p.m. in TL-11 Tory Lecture Theatre. Dr. Swamy was an Associate Professor at Harvard University and the Indian Institute of Technology in Delhi. He has written several articles with Nobel Laureate P. Samuelson; he has published other articles in prestigious economic journals. Dr. Swamy is on a world tour speaking on current political developments in India. This meeting is non-partisan and Dr. Swamy will be speaking from the viewpoint of all the opposition parties in India.

For further details about the lecture, call S.P. Singh, Associate Professor of Business Administration, at 432-3949, or R.K. Gupta, Associate Professor of Educational Psychology, at 432-3697.

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## THIS WEEK AND NEXT

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Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.

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### 26 FEBRUARY, THURSDAY

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#### Biomedical Engineering Seminar

2:30 p.m. "Concepts in cryobiology" by L.E. McGann, Division of Biomedical Engineering and Applied Sciences. 1064 Dentistry-Pharmacy Building.

#### Entomology Seminars

4:30 p.m. "Production of arctic nematodes: simulation and refinements of estimates" by Dennis Proctor. 245 Agriculture Building.

#### National Film Theatre

7 p.m. *Taiju to Zakuro/Pomegranate Time* (Japan, 1967).

9 p.m. *Inochi Bonifuro/Stake a Life for Nothing* (Japan, 1971). Directed by Masaki Kobayashi. Students' Union Theatre. Films are courtesy of the Consulate-General of Japan, Edmonton. Admission free.

#### Public Lecture

8 p.m. John D. Morris, Field Research Scientist for the Institute for Creation Research, will give a lecture accompanied by slides on the search and evidence for Noah's Ark. Jubilee Auditorium. Admission free.

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### 27 FEBRUARY, FRIDAY

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#### Faculty Club

*Downstairs.* "Nothin' Much." Chicken drum sticks, hot biscuits, salad, and baked apples. \$3.75.

*Upstairs.* Regular dinner menu. Reservations required.

**Student Cinema**

7 p.m. and 9:30 p.m. *The Great Waldo Pepper* (United States, 1975). Starring Robert Redford and Margot Kidder. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

**Concert**

8:15 p.m. The Edmonton Overture Concert Association presents Chitiri Arpi, a harp quartet from the USSR. Jubilee Auditorium. Tickets from the Bay Box Office, phone 424-0121.

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**28 FEBRUARY, SATURDAY**

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**Fencing**

The University of Alberta hosts the Canada West Fencing Championships.

**Art Gallery Film Series**

1:30 p.m. "Rousseau," from Kenneth Clark's *Pioneers of Modern Painting*. Downstairs, Edmonton Art Gallery. Admission free.

**Faculty Club**

*Downstairs*. "Leap Year Lament." Bitki sapravkoi gorchichnoi, Kasha, salade Russe, and cake. \$3.95.  
*Upstairs*. Regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

**University Concert Hall**

*And every Saturday*. 6:45 p.m. A radio program of music from the University of Alberta on CKUA AM and FM.

**Student Cinema**

7 p.m. and 9:30 p.m. *The Great Waldo Pepper* (United States, 1975). Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

**Edmonton Symphony Orchestra**

8:30 p.m. The ESO, conducted by Pierre Hétu and featuring Marek Jablonski, pianist, performs works by Mozart. Jubilee Auditorium. Tickets available from the Bay Box Office and the Symphony Box Office, phone 433-2020.

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**29 FEBRUARY, SUNDAY**

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**Fencing**

The University hosts the Canada West Fencing Championships. Main Gymnasium.

**Cinematheque 16**

2 p.m. *The Killing of Sister George* (Great Britain, 1968). Starring Beryl Reid and Susannah York. Downstairs, Edmonton Art Gallery. Admission \$2.

**Edmonton Symphony Orchestra**

2:30 p.m. The ESO, conducted by Pierre Hétu and featuring Marek Jablonski, pianist, performs works by Mozart. Jubilee Auditorium. Tickets available from the Bay

Box Office, and the Symphony Box Office, phone 433-2020.

**Student Cinema**

2:30 p.m. and 7 p.m. *Gone with the Wind* (United States, 1939). Starring Clark Gable and Vivien Leigh. Students' Union Theatre. Tickets \$1 advance from the Students' Union Box Office, or \$1.50 at the door.

**'In Touch with U'**

*And every Sunday*. 3 p.m. A program to introduce the University to the community at large. CITV channel 13, cable 8.

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**1 MARCH, MONDAY**

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**Civilisation Series (12)**

12 noon. *Byron, Beethoven, Romantic Disillusion* from Kenneth Clark's series. AV L-1 Humanities Centre. Repeat showing at 3 p.m. in L-3. Admission free.

**Plant Science Seminar**

1 p.m. "Analysis of agronomic characteristics of wheat (*Triticum aestivum*)" by A. Attinaw. 490 Agriculture Building.

**Anatomy Lecture**

4 p.m. "The Use of transplantation chimeras to elucidate the pathogenesis of muscular dystrophy" by Patricia A. Stewart, Department of Neurosciences, McMaster University. 5-12 Medical Sciences Building.

**Philosophy Public Lecture**

4 p.m. "Censorship and the life of the intellect" by D.Z. Phillips, Professor of Philosophy, University of Wales, and currently Visiting Professor at Carleton University. T1-93 Tory Building. Sponsored by the Departments of Philosophy and Religious Studies.

**Edmonton Film Society**

8 p.m. *The Wind* (1928). Directed by Victor Sjöström, starring Lillian Gish. TL-11 Tory Lecture Theatre.

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**2 MARCH, TUESDAY**

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**Dumb Show**

12:30 p.m. *Three Villains from York*, scenes from the York Mystery Cycle (c. 1415-1576). L-1 Humanities Centre. Admission free.

**Biochemistry Seminar**

4 p.m. "Lateral Transport of glycoproteins on the surface of a single cell" by Joseph Schlessinger, School of Applied and Engineering Physics, Cornell University. 231 Medical Sciences Building.

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**3 MARCH, WEDNESDAY**

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**Comparative Literature Lecture**

4 p.m. "The Subject of comparative literary studies" by Anton Popovic, Professor and Chairman of the Department of Literary Communication at Nitra, and Chairman of

Research Centre of Translation Studies at Comenius University, Bratislava. Dr. Popovic is currently a Visiting Professor here. L-4 Humanities Centre.

**Botany Seminar**

4:30 p.m. "The Moss genus *Dicranum* in western North America" by Wilbur Peterson. CW230 Biological Sciences Building.

**Opera Film**

7 p.m. *Der Rosenkavalier* by Richard Strauss. TL-11 Tory Lecture Theatre. Admission free.

**Edmonton Film Society**

8 p.m. *Diary of a Chambermaid* (1946) and *The Southerner* (1945). Directed by Jean Renoir. TL-11 Tory Lecture Theatre. Series tickets at the door.

**Department of Music Opera**

8 p.m. *Gianni Schicchi* by Puccini and *Trouble in Tahiti* by Leonard Bernstein. Convocation Hall. Admission \$3 regular, \$2 for students and children. Tickets available from 3-82 Fine Arts Centre, phone 432-3263, or at the door.

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**4 MARCH, THURSDAY**

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**Classics Seminar**

4 p.m. "Aristotle, infinity, and the 'first way' of St. Thomas" by J. King-Farlow and C.G. Normore. 1-8 Humanities Centre.

**Entomology Seminar**

4:30 p.m. C.D. Michener of the University of Kansas will give a lecture in 345 Agriculture Building.

**German Film**

7:30 p.m. *Das Glas Wasser* (1960). Starring Gustaf Gründgens and Hilde Krahl. Theatre Room, 17 Arts Building. Admission free.

**Cinematheque 16**

7:30 p.m. *If . . .* (Great Britain, 1969). Directed by Lindsay Anderson, starring Malcolm McDowell. Downstairs, Edmonton Art Gallery. Admission \$2.

**Department of Music Opera**

8 p.m. *Gianni Schicchi* by Puccini and *Trouble in Tahiti* by Leonard Bernstein. Convocation Hall. Admission \$3 regular, and \$2 for students and children. Tickets available from 3-82 Fine Arts Centre, phone 432-3263, or at the door.

**Library Science Annual Lecture**

8 p.m. "Book Collecting" by Lee Ash. TLB-2 Tory Lecture Theatre. Admission free.

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**5 MARCH, FRIDAY**

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**Women's Studies Sampler**

12 noon. "Women in the Soviet Union today" by Tova Yedlin, Assistant Professor of East



European and Soviet Studies. 142 Students' Union Building.

#### **Cinematheque 16**

7:30 p.m. *Oedipus the King* (Great Britain, 1968). Starring Christopher Plummer, Orson Welles, and Lilli Palmer. Downstairs, Edmonton Art Gallery. Admission \$2.

**Edmonton Symphony du Maurier Promenade**  
8 p.m. Kipnis Mime Theatre, featuring Claude Kipnis, a former student of Marcel Marceau, is presented. Jubilee Auditorium. Tickets available from the Bay Box Office and the Symphony Box Office, phone 433-2020.

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### **6 MARCH, SATURDAY**

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#### **Art Gallery Film Series**

1:30 p.m. "Munch," from Kenneth Clark's *Pioneers of Modern Painting*. Downstairs, Edmonton Art Gallery. Admission free.

**Edmonton Symphony du Maurier Promenade**  
8 p.m. Kipnis Mime Theatre, featuring Claude Kipnis, a former student of Marcel Marceau, performs in the Jubilee Auditorium. Tickets available from the Bay and Symphony Box Offices.

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### **EXHIBITIONS AND PLAYS**

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#### **University Art Gallery and Museum**

*Until 27 February.* "Selections from University Collections—Master of Visual Arts," an MVA Exhibition by Sally Don. Ring House Number 1. 10 a.m. to 4 p.m. Monday through Friday.

#### **Citadel Theatre**

*Opening 28 February.* *Mrs. Warren's Profession* by George Bernard Shaw. Directed by Tony Van Bridge. Citadel Theatre. Performances Tuesday through Saturday at 8:30 p.m. with Sunday performances at 2:30 p.m. and 7:30 p.m. Casual tickets available by phoning 424-2828.

#### **Provincial Museum**

*Until 4 April.* "Tom Webb Nature Photos," color photographs of butterflies, insects, birds, and mammals. Feature Gallery 1.  
*Until 25 April.* "Portraits of the Indians," a display of paintings of native people by artists from Paul Kane to Nicholas de Grandmaison. Feature Gallery 2.  
*Continuing.* "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

#### **Edmonton Art Gallery**

*Until 14 March.* "Jones/Will," a display of works by two Albertan graphic artists, Marvin Jones and John Will.  
*Until 15 March.* "Roger Fry Paintings and Drawings," an exhibit of works by the influential twentieth century art critic.

*Until 21 March.* "Robert Motherwell: Selected Prints 1961-74," an exhibition of thirty-three etchings and lithographs.

*Until 21 March.* "Sidney Tillim Drawings," a display of work by a leading contemporary American figure painter.

#### **Sculpture and Print Exhibition**

*Until 28 February.* The Department of Art and Design presents a Sculpture and Print Exhibition in SUB Art Gallery. The hours are from 11 a.m. to 6 p.m. Monday to Friday and 2 p.m. to 6 p.m. Saturday and Sunday.

#### **Citadel Too**

*Until 28 February.* *Endgame* by Samuel Beckett. Starring John Neville. 10018 102 Street. Performances Monday through Saturday at 8 p.m. Admission \$3 regular, and \$2 for students. Tickets are available from the Citadel Box Office, phone 424-2828.

#### **Book Display**

"Twentieth Century Canadian Book Design and Illustration," a display selected from the holdings of Special Collections is on view in the reading room of the Special Collections Unit in the basement of Cameron Library.

#### **Theatre 3**

*Until 28 February.* *The Broken Globe*, adapted by Frank Moher from a story by Henry Kreisel. Edmonton Art Gallery Theatre. Performances are nightly at 8:30 p.m., with a special performance on February 26 at 12:10 p.m. Tickets available from the Bay Box Office or from Theatre 3 by phoning 426-6870.

#### **Swiss Cartography Exhibition**

The Pro Helvetia Foundation is sponsoring an exhibit of Swiss Cartography. This touring exhibit will be on display in the University of Alberta Map Collection, B-17 Tory Building, until the end of February.

The story of Swiss Cartography is told in nine chapters: historical development 1500-1800; surveying by triangulation; altitude determination; photogrammetry; contours; preparation of print plates; printing of topographic maps; map generalization; and thematic maps.

The Map Collection is open from 8:30 a.m. until 4:30 p.m., Monday through Friday.

#### **University Art Gallery and Museum**

*2 March to 28 March.* "Suiting Everyone," a display which illustrates the key factors leading to mass production and merchandising of clothing. The exhibition, subtitled "The Democratization of Clothing in America," contains actual costumes and textiles spanning a period of several hundred years. Ring House Number 1. The Gallery is open from 10 a.m. to 5 p.m. from Monday to Friday, and from 2 p.m. to 5 p.m. on Sundays.

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## **NON-CREDIT COURSES**

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### **MANAGEMENT AND THE NEW MANAGER**

This intensive two-day program is intended to provide the recently appointed manager with some conceptual skills and insight in the art of managing. The emphasis will be placed on the areas of role definition, organizational parameters, and the motivation of people. Instructors are William A. Presling and Richard Faryon of this University.

The course will be held March 18 and 19, from 8:45 a.m. to 4:15 p.m. A fee of \$85 includes textbook, materials, and luncheons. Registrations are accepted in 228 Corbett Hall.

### **SELECTED TOPICS IN CONSTRUCTION PROJECT PLANNING AND CONTROL**

Three faculty members from Stanford University's graduate-level program in Construction Engineering and Management will be in Edmonton March 22 through 25 to conduct a Construction Project Planning and Control seminar for the Faculty of Extension. John W. Fondahl, Henry W. Parker, and Boyd C. Paulson, Jr., will conduct the seminar, which will cover such topics as methods analysis and improvement, network planning and scheduling, resource allocation, management reports, cost control, problems in dealing with uncertainty, and management attitudes related to safety. Emphasis will be on practical use of methods and overcoming obstacles to implementation.

The seminar should be of value to representatives of construction clients as well as construction contractor personnel. Although the emphasis will be in the field of construction contracting, much of the material to be covered will be of value to those engaged in other types of project endeavors.

The seminar will begin Monday, March 22, at 9 a.m. in the Banff Springs Hotel. Registrations are accepted in 228 Corbett Hall. The fee is \$250 not including accommodation. The seminar is limited to forty participants; the registration deadline is March 12. Additional information is available by calling 432-3037.

### **GARDENING FOR APARTMENT DWELLERS**

Apartment dwellers can be successful gardeners with the information available in this Faculty of Extension course, which begins March 1. Various aspects of developing and maintaining a garden in an apartment will be discussed by E.W. Toop and Helge Welling, both of the Horticulture Section, Department of Plant Science.

The course will be held for four Mondays from 7:30 to 9:30 p.m. beginning March 1. The fee is \$10 per person and may be paid in 228 Corbett Hall. Additional information is available by calling 432-3029.

# folio accepts display advertising

*Size and rates:* the basic unit size is 45 agate lines x 15 picas (3¼" x 2½"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2½" x 1½") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

*Other specifications:* half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

*Contact:* Richard Kerr or Esther Fraser, 326 Assiniboia Hall, The University of Alberta; telephone 432-4991.

## T.A. LIFE SCRIPTS WORKSHOP

The Faculty of Extension will be holding a Transactional Analysis Life Scripts Workshop March 12 and 13. The workshop is open to those who have had at least a basic workshop in Transactional Analysis. The class is limited to twelve participants. Instructors will be Don Sawatzky and Pam Weinlick.

Class hours on March 12 are from 7 to 10 p.m. On March 13, the workshop are from 9 a.m. to 10 p.m. The course fee is \$50. Registrations are accepted in 228 Corbett Hall. Additional information is available by calling 432-5069.

## INCOME TAX ACT

Due to overwhelming demand, the Faculty of Extension is offering another short course on the Income Tax Act, which will begin March 16. This course is an overview for the layman of some common problems with the 1972 Act. Topics to be discussed include basic rules for computation of income tax, taxation of individuals, taxation of business and property income, taxation of capital gains and what gains are taxed, taxation of other sources of income and special cases, corporations, and shareholders. G.P. Coskey, Mowbrey, Coskey and Co., Edmonton, will be the instructor.

The course will meet for six Tuesdays beginning March 16. Registrations are accepted in 228 Corbett Hall. The fee is \$35 including materials. Additional information is available by calling 432-5067. Enrolment will be limited.

## GRADUATE SCHOLARSHIPS AND AWARDS

### Sir James Dunn Scholarships in Law Dalhousie Law School

*Where tenable:* Halifax. *Level of study:* undergraduate. *Conditions:* transcripts of marks are needed. A statement from the applicant addressed to the selection committee, Sir James Dunn Scholarships in Law, should set forth reasons for wanting to study Law. Other conditions set forth on the application form which may be obtained from the Student Awards Office. *Further information and application forms can be obtained from:* Arthur L. Foote, Chairman, Sir James Dunn Scholarship Selection Committee, Faculty of Law, Dalhousie University, Halifax, Canada B3H 4H9.

## GRANTING AGENCIES: APPLICATION DEADLINES

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and

Contracts Office at least 10 days before the deadline date. Where other University resources are involved, the time requirement may be much longer than 10 days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes, Centres, Schools, and Department Chairmen, or by phoning the Research Grants and Contracts Office, 432-5360. Note: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advanced information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. Code: (R) Research funds; (E) Exchange programs; (T) Travel grants

Calendar source number	Code	Granting agency	Deadline date
(25)	R	American Philosophical Society	Apr. 23 Aug. 20 Oct. 22 Dec. 24 Feb. 18
(156)	R	Health and Welfare Canada— Research on Drug Abuse <i>New Awards</i>	Apr. 1 Sept. 15 Nov. 15 Apr. 1 Sept. 15
		<i>Re-application</i>	
(255)	R	Medical Research Council— <i>New Grants; Grants for 1 year only; Major Equipment Term Grants;</i>	Apr. 1 Sept. 1 Nov. 15
		<i>Renewal of Term Grants; Continuing Annual Grants (renewals)</i>	Sept. 1 Nov. 15
(259)	R	Multiple Sclerosis Society of Canada	Apr. 1 Oct. 1
(320)	R	North Atlantic Treaty Organization	Apr. 30 Sept. 15 Jan. 15

## RESEARCH PROPOSALS OR APPLICATIONS MAY BE SUBMITTED TO THESE GRANTING AGENCIES AT ANY TIME

*This list should be retained for future reference.*

All research proposals or applications should be forwarded, after being signed by the Research Director, the Chairman of the Department, and receiving the approval of the Dean of the Faculty where required, to the Research Grants and Contracts Office for registration and review. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of the Deans, Directors of Institutes, Centres, and Schools, and Department

Chairmen, or by phoning the Research Grants and Contracts Office, 432-5360. *Note:* Although the calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advanced information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. *Code:* (R) Research funds; (E) Exchange programs; (T) Travel grants.

<i>Calendar source number</i>	<i>Code</i>	<i>Granting agency</i>
(5)	R	The Advanced Research Project Agency—USAF/AFSC Liaison Office
(57)	T	Canada Council—Meetings and Exchanges Grants Travel to Canadian Learned Societies Occasional Conferences
(95)	R	Central Mortgage and Housing Corporation
(140)	R	Department of Industry, Trade and Commerce—Grains and Oilseeds Marketing Incentives Program
(141)	R	Department of Industry, Trade and Commerce—Agricultural and Food Products Market Development Assistance Program
(160)	R	Department of the Solicitor General
(165)	R	Donner Canadian Foundation
(257)	R	Medical Services Research Foundation of Alberta
(270)	R	National Aeronautics and Space Administration
(350)	R	James Picker Foundation
(370)	R	Research Corporation of New York
(380)	R	The Sellers Foundation
(410)	R	U.S. Air Force Office of Scientific Research
(415)	R	U.S. Department of the Army
(425)	R	U.S. Department of the Navy
(435)	R	Alexander von Humboldt-Stiftung Foundation
(445)	T	Wellcome Trust
(450)	R	World Health Organization

## POSITIONS VACANT

### Special Events Director

#### Students' Union

*Duties:* to coordinate and organize forums and social events. *Qualifications:* minimum grade XII; experience in the entertainment industry. This is a ten-month term appointment commencing July 1, 1976 and ending April 30, 1977. Salary ranges up to \$8,000 depending on qualifications and experience.

*Applications:* will be received in writing by the General Manager, 256 Students' Union Building.

### ACADEMIC POSITIONS

#### Administrative/Professional Officer

##### Planning and Development

*Duties:* to act as secretary to policy level committees, including the organization of agendas and materials, preparation of minutes and the taking of appropriate follow-up action; further, to act in an administrative capacity with respect to specific assignments as required. *Qualifications:* an ability to write in a concise, precise manner with a logical organization of thought and material. A related degree and/or substantial experience in business transactions with

The Minister's Advisory Committee on Student Affairs invite students and institutional representatives to make written submissions regarding three areas of importance to students:

## COUNSELLING, FINANCING, & HOUSING.

Please forward your submissions before March 15 to:

Dr. A. G. Scott, Chairman  
Minister's Advisory Committee  
on Student Affairs  
c/o Glenrose Hospital  
10230 - 111 Avenue  
Edmonton, Alberta  
T5G 0B7

A public meeting was held in Edmonton on February 7, 1976.

# Alberta

ADVANCED EDUCATION  
AND MANPOWER

legal consequence is a decided asset. Starting salary will be in the \$12,000 range, depending upon qualifications. *Applications:* with resume, personal and business references, and salary expectation should be forwarded to E.R. Shedden, Assistant to the Vice-President (Planning and Development), 3-6 University Hall. If requested, confidence will be respected.

**Assistant or Associate Professor of Native Studies  
Brandon University, Brandon, Manitoba**

Applications are invited for the position of Assistant or Associate Professor of Native Studies. Applicants should be qualified in one or more of the following areas: Métis history, government, Native philosophy, and Native research methods.

Salary and rank commensurate with experience and qualifications. PhD preferred; Masters essential. Appointment effective July 1, 1976. Closing date for applications is April 1, 1976.

Applicants are asked to provide a curriculum vitae and the names of three referees. Completed applications should be sent to Dr. Arthur W. Blue, Head, Department of Native Studies, Brandon University, Brandon, Manitoba, Canada.

**NON-ACADEMIC STAFF**

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly.*

Clerk Steno I (\$505-\$599)—Surgery  
Clerk Typist II (\$505-\$627)—Bookstore; Comptroller's Office; Student Counselling Services; Political Science  
Bookkeeper I (\$505-\$627)—Surgical-Medical Research Institute  
Clerk Steno II (\$527-\$653)—Secondary Education; Extension; Clinical Services, Faculty of Education  
Purchasing Clerk I (\$551-\$683)—Purchasing  
Clerk Typist III (\$228-\$356)—Psychology (part-time)  
Clerk Typist III (\$576-\$713)—Political Science  
Clerk Steno III (\$599-\$744)—Mineral Engineering; Agriculture and Forestry, Dean's Office; Physics; Education Psychology; McLaughlin Research Centre (Trust)  
Publications Clerk II (\$599-\$744)—Entomology  
Data Entry Operator I (\$599-\$744)—Computing Services (2 positions)  
Student Record Processing Clerk (\$627-\$779)—Faculty of Graduate Studies and Research; Office of the Registrar  
Secretary (\$683-\$853)—Office of the Vice-President, Planning and Development; Chemistry (2/3 of trust, 1/3 regular)  
Assistant Control Clerk I (\$505-\$576)—Computing Services  
Laboratory Assistant I (\$505-\$576)—Surgical-Medical Research Institute  
Laboratory Assistant I (\$551-\$683)—Anatomy  
Ice Rink Attendant (\$653-\$814)—Physical Education  
Biochemical Technician I (\$713-\$891)—Surgical-Medical Research Institute  
Electron Microscope Technician I (\$713-\$891)—Botany  
Laboratory Technologist II (\$779-\$975)—Provincial Laboratory  
Biochemical Technologist I (\$814-\$1,020)—Cancer Research Unit (trust)  
Technologist I (\$814-\$1,020)—Sociology; Science  
Biology Technologist I (\$814-\$1,020)—Genetics  
Analyst Trainee (\$932-\$1,171) Physical Plant  
Audio-Video Technician II (\$891-\$1,118)—Radio and Television  
Projects Estimator (\$1,118-\$1,406)—Physical Plant

*The following is a list of currently available positions in the University Library. The bulletin board postings in the Library Personnel Office, 516 Cameron Library*

*should be consulted for further information as to position requirements and availability.*

Library Clerk II (\$527-\$653)—Out-of-Print  
Library Clerk III (\$576-\$713)—Cataloguing; Acquisitions

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## PERSONAL NOTICES

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*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

**Accommodation available**

For rent—Petrolia split-level. Completely furnished. July and August. 435-4040, evenings.

For rent—furnished basement suite near campus. Kitchen, living room, bathroom and two bedrooms. Separate entrance. Prefer single men. Available March 1. \$143/month plus utilities. Phone Dr. Davidson 432-3637 daytime; evenings 439-4698.

For sale—large cottage lots Grandview area at Pigeon Lake. Power, gas, telephone access. 400 feet to good beach and boat launch. Nobbs Enterprises Ltd. 452-7558.

Executive condominium townhouse, Riverbend; three bedrooms, 1½ baths, fireplace, fridge, stove, dishwasher, attached garage. \$450. 439-0124 or 458-2436 evenings.

For rent—five-bedroom home with recreation room. Completely furnished; two-car garage. Available for one year starting July 1, 1976. Valleyview. \$550 per month. 482-4564 Edmonton.

For rent—new three-bedroom townhouse, furnished; dishwasher, washer, dryer, fridge, stove. One block from University bus route. Available May 1-October 31. \$264/month. Prefer married couple, professor or graduate student. 462-3624.

Apartment to sublet. College Plaza; approximately May 15. 433-0445 evenings.

For rent—June 15 or July 1, 1976 to August 1, 1977. Well furnished three-bedroom house; finished basement; Greenfields area. Only those capable of taking good care of a home need apply. Phone Fred Laux, 432-5539 or 435-6266 evenings.

Wanted—second person to share two-bedroom furnished apartment. South. \$140. Clanachan, 432-5084 daytime, 436-2046 evenings.

For rent—available March 17 to July 31, 1976. Fully furnished three-bedroom house with garage, study, sauna, family room, dishwasher, etc. Belgravia; ten minutes to University. Single family. \$350/month. 436-0145, 432-5673.

Five acres, Lot 6744, about two miles north of Simon Fraser University on north side of Burrard Inlet. Located at 500-foot elevation in Belcarra Park, 3000 feet south of Bedwell Bay. View is west and north. Price \$37,500 (increases to \$41,000 after March 1). Contact Montreal Trust, Real Estate Division, 466 Howe Street, Vancouver, attention G.C. Barker, (604) 688-4411 or (604) 266-7028 (res.).

For rent—for 14½ months, from May 15. Large bungalow, 1750 square feet; partially furnished, professionally finished lower area, four bedrooms, 2½ baths, two fireplaces, family room, dishwasher, double garage with automatic door opener. In Laurier Park. \$500/month. 436-1845.

For rent—gracious older furnished home. Walking distance University, close to Scona and elementary schools. Seven rooms. Four bedrooms, study, separate dining room, wood-burning fire-place,

enclosed yard. July 1, 1976—August 1977.

\$300 plus utilities. 439-2974.

For rent—Pleasantview, three-bedroom furnished house. March to August. \$350. 435-2690.

For rent—Riverbend, fully-furnished three-bedroom bungalow; 2,000 sq. ft. main floor with study, plus 1600 sq. ft. library and study in basement. Automatic hydroponic greenhouse. On direct busline to University. Available July 1, 1976-September 1, 1977. 432-5889 or 434-6586 or write A.L. Bryan, 14304-60 Ave., Edmonton.

Hawaii—two-bedroom home with study. Full view Hilo Bay; 150 yards from ocean. completely furnished. Privacy complete; three miles from town. Available about May 15-September 1. \$325/month, plus utilities. References. Donald Wells, University of Hawaii, Box 1357 Hilo, 96720.

Spacious three-bedrom semi-bungalow, 1,700 sq. ft. Close to University. French doors in livingroom; refinished hardwood floors; two basement suites. Large existing mortgage. \$69,900. Principals only. 434-6270 week-day evenings.

**Accommodation wanted**

Wanted to rent—furnished three-bedroom home while on sabbatical from mid-May to end December 1976. Prefer close to University, others considered. R.F. Childs, Department of Chemistry, McMaster University, Hamilton, Ontario.

**Automobiles and accessories**

For sale—1971 Volvo stationwagon 1455. Michelin tires. 44,000 miles. 436-2627.

For sale—1971 Volvo 145 (wagon); radials, radio, hitch, roof rack; 52,000 miles. Offers. 434-9189.

**Goods and services**

Typing, fast, accurate service. Phone Georgina Campbell, 489-4810 evenings.

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Will type theses, manuscripts, etc. Experienced typist. Phone 459-5276.

Peking, Shanghai food. Delicious, inexpensive. Simple surroundings. Shanghai House, 6525 111 Street. 435-7622.

Manuscripts, theses neatly typed. Faculty references. Dorothy Woslyng, 434-0675.

Stereo consultants specializing in speaker design and construction. We can save you money. Phone 432-0572.

Moving—two Oregon Myrtlewood table lamps (no shades); Deilcraft bedroom suite; green vinyl chrome suite with six chairs; two bookcases; tandem utility trailer. All items top quality and new condition. 435-6686.

Handyman carpentry service. Phone John 434-9709 evenings.

Typing Associates—a quality typing service for theses, manuscripts, reports. Carbon ribbon; no erasures. Shannon, 462-3825 or Pat, 482-6611 after 5 p.m.

Electronic Experimenters—Transformers, chassis, guitar amplifier components, unfinished speaker boxes, keyboards for sale. 436-1879, 7 to 9 p.m.

Fast reliable income tax preparation. Phone 429-1304.

Book Editor—Hurtig Publishers are expanding their output of new Canadian books and require additional freelance editorial help. If you are an experienced trade book editor, can handle one or more books from your home on a freelance basis and can provide top quality editorial work from manuscript to page proofs, please phone Eva Carlson at (403) 426-2508.

Wanted—older-style upright piano in good condition. For use in University Hospital lounge area.

Phone 434-0431 or 436-5512.

Lost—vicinity of Vanier House, Michener Park, film in cannister and take-up reel. Finder please call 432-5428 or 436-3771. Reward for return.